S/126/61/011/001/016/019 E032/E314

9.4300 (1043,1143, 1158)

Zavadskiy, E.A. and Fakidov, I.G.

AUTHORS: Zavadskiy, E.A. and January Title: Measurement of the Hall Effect of n-Ge in Strong

TITLE: Measurement of the had pulsed Magnetic Fields

PERIODICAL: Fizika metallov i metallovedeniye, 1961, Vol. 11, No. 1, pp. 147 - 149

TEXT: This paper is a continuation of the previous paper in this issue (pp. 145 - 147). In earlier papers the authors showed that at sufficiently low temperatures (60-90 K) the effect of the quantisation of temperatures (consider the electrical conductivity energy of current carriers on the electrical conductivity becomes appreciable for magnetic fields of 50-100 kOe. The aim of the present paper was to elucidate the effect of this aim of the present paper was to elucidate the effect of this quantisation on the Hall constant. Plates (9 x 1.5 x 0.8 mm) quantisation on the Hall constant. Plates (9 x 1.5 x 0.8 mm) cut from n-Ge with () = 2, 8.5 and 30 ohm.cm at room cut from n-Ge with () = 2, 8.5 and 30 ohm.cm at room temperature were employed. The Hall e.m.f. was exhibited temperature were employed. The Hall e.m.f. was exhibited directly on a CRO screen as a function of the magnetic field. The measurements were carried out for different current directions through the specimen and different magnetic-field Card 1/5

S/126/61/011/001/016/019 E032/E314

Measurement of the Hall Effect of n-Ge

directions. In the temperature range 58 to 310 °K fields up to 200 kOe were used. In addition, the Hall effect was measured at 77 °K in fields up to 450-500 kOe but the Hall constant was found to be independent of the magnetic field. The quantisation of the energy of the carriers in a magnetic field becomes effective for hw > kT where w is the cyclotron frequency and h is the Planck constant divided by 27. Assuming that the mean value of the effective mass of the carriers is m^T = 0.12 m one finds that with T = 77 °K the condition hw = kT is already satisfied at H = 69 kOe and, consequently, at H = 500 kOe and T = 77 °K one finds that hw = 7 kT.

hw = kT is already satisfied at it is already satisfied at it is already satisfied at it is a second to the field dependence of the Hall constant in the absence of the field dependence of the Hall constant in this case is in disagreement with the predictions of Klinger and Voronyuk (Ref. 3) but is in agreement with the results of Argyres (Ref. 5). Fig. 1 shows the dependence of the Hall e.m.f. (V) on the magnetic field (kOe) for an n-Ge specimen

Card 2/5

S/126/61/011/001/016/019 E032/E314

Measurement of the Hall Effect of n-Ge with O = 30 ohm.cm at T = 20 °K (Curve 1 corresponds to a current density of 7.5 mA/mm², Curve 2 to 2.5 mA/mm²), The specimen for which Curve 1 was obtained was previously used in measurements of the resistivity and a consideration of the data obtained for it shows that in the region where the Hall constant is variable Ohm's law ceases to hold. This is confirmed by the second curve (Curve 2). Curve 1 was used to calculate the current carrier concentration as a function of the magnetic field and this is shown in Fig. 2. As can be seen from Fig. 2, different values of the current density correspond to different values of the magnetic field at which the change in the carrier concentration begins; thus, the observed changes in the carrier concentration are closely associated with departures from $0hm^7s$ law. In the specimen with Q=30 ohm.cm at T=20 K scattering on impurity ions is still very small. Further work is being carried out on

Card 3/5

8991:8

S/126/61/011/001/016/019 E032/E314

Measurement of the Hall Effect of n-Ge

the Hall effect using specimens with considerably lower resistivities. There are 2 figures and 5 references: 3 Soviet and 2 non-Soviet.

ASSOCIATION:

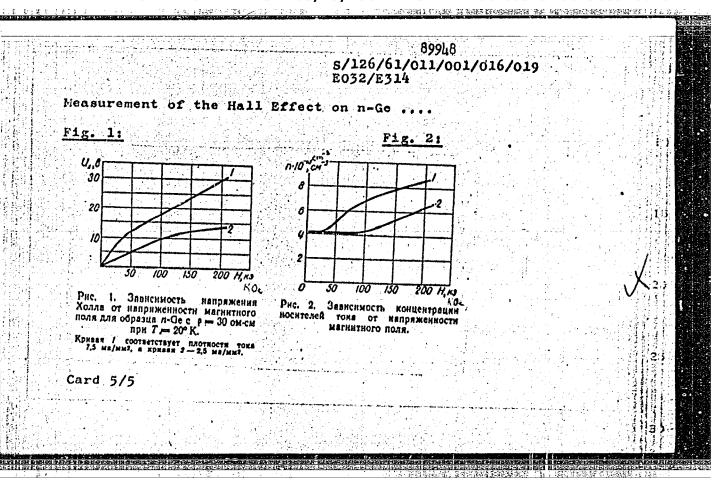
Institut fiziki metallov AN SSSR (Institute

of Physics of Metals, AS USSR)

SUBMITTED:

July 20, 1960

Card 4/5



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1418 1413 4016

33451

5/126/61/012/006/005/023

E073/E535

18.8100 AUTHORS:

Zavadskiy, E.A. and Fakidov, I.G.

TITLE:

Magnetization of the intermetallic compound ShAng in super-high pulsed magnetic fields

PERIODICAL: Fizika metallov i metallovedeniye, v.12, no.6, 1961,

832-837

The measurements of A. J. Meyer and P. J. Taglang (Ref.2: J.Phys.Rad., 1956, 17, 457) revealed the existence of a threshold field and enabled investigation of the initial section of the approximation to saturation. By extrapolation, the saturation magnetization for several temperatures was calculated. Extrapolation to absolute zero enabled determining the magnetic moment per atom of manganese, which proved equal to 3.49 Bohr magnetons. Obviously these results are very approximate, since the ranges of the magnetic fields (up to 28 kOc) and temperatures were not wide enough. Therefore, the authors investigated the magnetization of a polycrystalline MnAu specimen in the temperature range 77 to 418°K in pulsed magnetic fields of up to At room temperature the field could be increased to

Card 1/4

Magnetization of the

33451 s/126/61/012/006/005/023 E073/E535

The MnAu2 compound was produced by fusing electrolytically purified manganese (99.98%) with 99.99% gold in an evacuated quartz ampoule at the temperature of 1100°C. The alloy was airquenched and then annealed for two hours at 900°C followed by quenching in oil, annualing for 72 hours at 690°C followed by After carrying out the magnetic measurements, quenching in oil. Miver carrying out the magnetic measurement that the specimens 1.2 x 0.8 x 10 mm were again annealed at 690°C and the measurements were repeated. The reproducibility proved to be satisfactory. It was found from magnetization curves plotted on the basis of numerous oscillograms that these curves contained three characteristic sections at temperatures below the Neel point H < 10 kOe in which the susceptibility does not depend on the (368°K in the given case):

field strongth and the alloy has an antiferromagnetic behaviour; 2. H> 30 kOe when the behaviour of the alloy is ferromagnetic;

3. Fields intermediate between the above two values in which the

The investigated specimen had a density of 14.3 g/cm³, the magnetic moment per manganese atom was 3.38 $\mu_{\textrm{B}},$ which is very near to the

Card 2/4

Magnetization of the ...

S/126/51/012/006/005/023 E073/E535

respective value in Cerromagnetic alloys and also very near to the value of 3 49 $\mu_{\rm B}$ obtained by Meyer and Taglang. The temperature dependence of the saturation magnetization can be expressed satisfactorily by the equation

$$T_{\infty}$$
, $T = T_{\infty}$, $0^{(1 - \beta T^2)}$,

where

$$I_{\infty}$$
 = 595 gauss and β = 3.3·10⁻⁶

Meyer and Taglang also determined the saturation magnetization and its temperature dependence in fields up to 28 kOe. They assumed that the approximation to saturation would obey the square value law in all field intensities. The measurements described in this paper showed that the square value law is complied with at fields up to 35--40~kOe at a temperature T = 290°K but only up to 37~kOe at T = 77°K . Extrapolated values of I, gauss vs. $1/\text{H}^2$ based on the square value approximation are considerably lower than those measured. The authors express the view that the behaviour in the paramagnetic range can be explained by introducing Card 3/4

Magnetization of the ...

33451 \$/126/61/012/006/005/023 E073/E535

an "effective" field composed of the external and the molecular fields. The applied magnetic fields were not high enough for unequivocal solution of the problem of the influence of the temperature on the coefficient of the molecular field. The paramagnetic measurements in stronger fields will be continued for the purpose of elucidating the influence of temperature on the molecular field and the magnetic moment of saturation in the paramagnetic state. There are 5 figures and 8 references: 3 Soviet-bloc and 5 non-Soviet-bloc. The English-language references read as follows: Ref. 2: quoted in text; Ref. 3: Asch G. J. Phys. Rad., 1959, 20, 349.

ASSOCIATION: Institut fiziki metallov AN SSSR

(Institute of Physics of Motals AS USSR)

SUBMITTED:

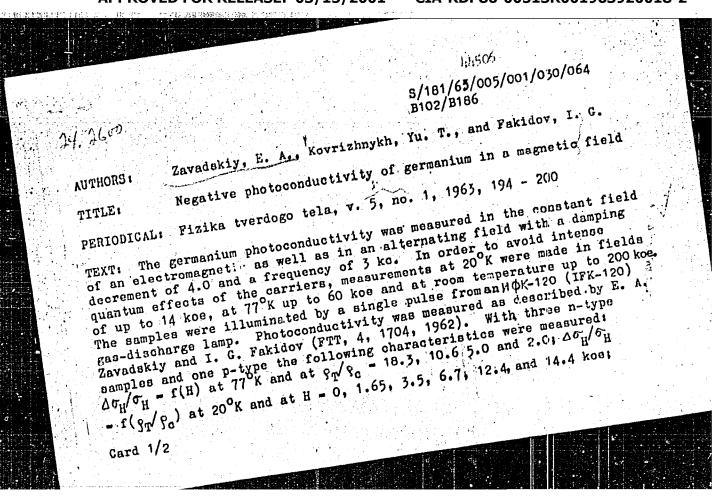
April 3, 1961

Card 4/4

ZAVADSKIY, E.A., FARIDOV, I.G.

Conductance of germanium in high pulsed magnetic fields in the region of mixed conductivity. Fiz.tver.tela 4 no.7:1704-1709 Jl 162. (MIRA 16:6)

1. Institut fiziki metallov AN SSSR. Sverdlovsk. (Germanium-Electric properties) (Magnetic fields)



Negative photoconductivity ...

S/181/63/005/001/030/064 B102/B186

 $\Delta \sigma_{H}/\sigma_{H} = f(1/H^{2})$ at 77°K and at $g_{T}/g_{c} = 4.9$, 1.25, 1.4 and 1.7; $(\Delta \sigma_{H}/\sigma_{H})_{\infty}$ = $f(g_{T}/g_{c})$ at 77°K for an n-type and a p-type sample; $(\Delta p/n_{o})_{o} = f(H^{2})$ at 58 and 77°K. σ_{H} denotes the conductivity without illumination, g_{T} and g_{c} are the resistivities without and with illumination at H = 0; $(\Delta \sigma_{H}/\sigma_{H})_{\infty}$ gives the saturation value (extrapolated to $H = \infty$); $(\Delta p/n_{o})_{o}$ gives the position of the injection level. The results, showing that at high magnetic field strengths the photoconductivity is negative, are in good quantitative agreement with theory (Madelung, Z. Naturf., 8a, 791, 1953). The results correspond to impurity conductivity. For samples with mixed dark conductivity, negative photoconductivity can be observed only at higher field strengths. There are 6 figures and 1 table.

ASSOCIATION: Institut fiziki metallov AN SSSR, Sverdlovsk (Institute of the Physics of Metals AS USSR, Sverdlovsk)

SUBMITTED: July 26, 1962

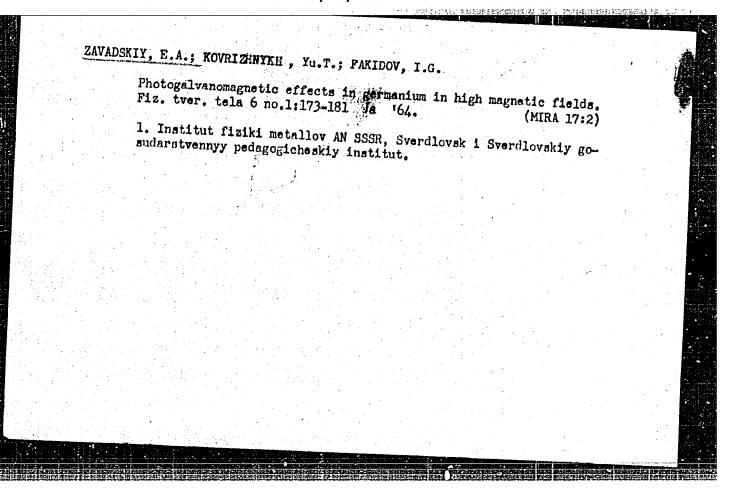
Card. 2/2

FOKINA, Ye.A.; ZAVADSKIY, E.A.

Effect of magnetic fields on martensite transformation in steel.

Fiz. met. 1 metalloved. 16 no.2;311-313 Ag '63. (HIRA 16:8)

1. Institut fiziki metallov AN SSSR. (Steel-Metallography) (Magnetic fields)



	EWT(1)/EWT(12)/EWP(w), P5028570 (//)		/EWP(&)/EWP(b) Æ: UR/0126/65/		SEAG
AUTHOR: V	oronchikhin, L. D.; Zav	adskiy, E. A.; Fe	kidov, I. G.		
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for constar	ot magnetic fields and er) and 10 mm (length).	strongly changing The data showed	ones. Sample of that the experi	limensions were l mental portions	l
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1. 14991-66

ACC NR: AP5028570

$$\frac{7}{I_{\bullet}'} = \frac{\tilde{\sigma}}{\sigma_{\bullet}} = L\left(\frac{MH}{kT}\right), \tag{1}$$

where k is Boltzman's constant, T is the absolute temperature, M is magnetic moment of the superparamagnetic particle and $I_{\rm s}$ is saturation magnetization of the sample. Satisfactory agreement of the experimental and calculated curves exhibit the utility of equation (1) for calculating the magnetic moments of particles. Two boundary cases were considered, corresponding to the conditions when $MV/T \in \mathbb{R}$ (weak field) and MV/T = 1 (atrong field). Equation (1) for the case when MV/T = 1 reduces to

$$\overline{I} = \frac{NM^4}{3k} \frac{H}{T},$$

where N is the number of particles per cm³; for the case then MI/kT > 1, the following was applicable:

$$\frac{7}{I_{\infty}} = \frac{\sigma}{\sigma s} = 1 - \frac{kT}{M} \frac{1}{H}.$$

Card 2/3

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ACC NRI 11037058

SOURCE CODE:

UR/0056/66/051/005/1317/1320

AUTHOR: Zavadskiy, E. A .; Fakidov, I. G.

ORG: Institute of Physics of Metals, Academy of Sciences SSSR (Institut fiziki metal-lov Akademii nauk SSSR)

TITLE: Magnetic properties of the compound Mn3Ge2 in strong magnetic fields

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 5, 1966, 1317-

TOPIC TAGS: manganese compound, germanium compound, magnetic property, magnetization, antiferromagnetism, magnetic moment

ABSTRACT: The purpose of the investigation was to determine the magnetic moment directly from measurements of the magnetization in the state of weak ferromagnetism. The tests were made in fields of intensity up to 300 kOe in the temperature interval from 370 to 77K. The measurements were made on polycrystalline samples using a pulsed magnetic balance and a piezoelectric pickup. The results showed a transition from the antiferromagnetic state to the state of weak ferromagnetism at the first critical point (160K). With increasing field, the transition temperature decreases. In the state of weak ferromagnetism, the dependence of the magnetization on the field is linear up to 50 kOe, after which saturation sets in. From the occurrence of the point of saturation it is found that at T > 100K the magnetic moment per manganese atom is

Card 1/2

SUB CODE: 20/ SUBM DATE: 02Jun66/ ORIG REF: 007/ OTH REF: 002	Bohr magne Mn ₃ Ge ₂ in dependence entropy by	from the tons per a strong sof the a factor	he antiferr r manganese g magnetic e magnetiza or 2.4. Th	comagnetic st atom: The field close tion and is a authors the for help wi	change occi to 100K is accompanied ank V. N. 1	urring in confirmed in by a cha	the magnet lalso by thinge in the dy for sur	ic struct he temper transiti plying th	ure of ature on e	Constitution of the state of th
	SUB CODE:	20/	SUBM DATE:	02Jun66/	ORIG. REF	: 007/	OTH REF:	002		

ZAVADSKIY, E.D.

USSR/Human and Animal Physiology - Physiology of Labor and Sports.

V-10

Abs Jour

: Ref 7hur - Biol., No 4, 1958, 18723

Author

: I.S. Kharsnat, and E.D. Zavadekiy

Inst

: The Kiev Institute of Physical Culture.

Title

: The Effect of Rarefied Air on Certain Physiological Charac-

teristics in Young Wrestlers.

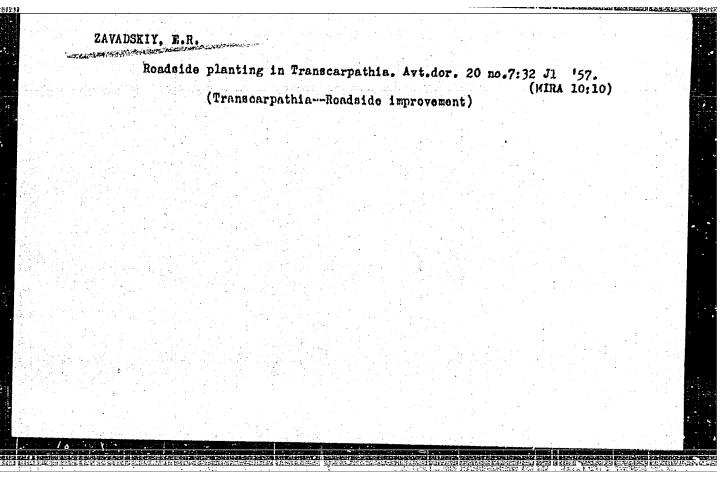
Orig Pub

: Tr. Kiyevsk. in-ta fiz. kul'tury, 1957, 2, 13-17

Abstract

: No abstract.

Card 1/1



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ACC NRI AP6001016 (A) SOUNCE CODE: UN/0286/55/000/022/0101/0101	-
Actions: isidorov, V. V.; Akunov, V. I.; Bubinskiy, M. G.; Layerskiy, V. I.; Bubinskiy, M. G.; Layerskiy, V. R.; P. R.; Sidochenko, I. M.; Sominski, B. S.; Titov, P. P.; Khalov, G. G.; Shchevel', A. S.; Zavgorodniy, N. S.	
ORG: none	4
TITLE: A reactor for combined pulverizing and burning of a material, such as cement, in a high temperature gas stream. Class 80, No. 18569	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 101	200
TOPIC TAGS: cement, thermal reactor	N. C.
ABSTRACT: This Author Certificate presents a reactor for combined pulverizing and burning of a material, such as coment, in a high temperature gas strong. To provide automatic regulation of the burning set calculation time for the materia in the chamber and at an angle to its radii. An opening in the center of the chamber bottom is used to discharge the finished burned product.	The second stable days were listen from the second
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SHERSHOV, Sergey Fedorovich, dotsent, kand.tekhn.nauk; FRUZHER, Saul
L'vovich, dotsent, kand.tekhn.nauk; ZAVAISKII, Ivan Mikhaylovich,
dotsent; HELIDOV, I.Te., red.; BORUMOV, E.I., tekhn.red.

[Roonomics and organization of power production] Ekonomika i
organizatsia energeticheskogo proizvodstva. Pod obshohni red.
S.F.Shershova. Moskva, Gos.energ.izd-vo. 1959. 463 p.

(Power engineering)

(Power engineering)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963920018-2"

(Dotsent, Noscow Power Inst.)

| Dynamics of the Main Economic Indices of Power Economy. | report presented at the All-Union Sai. Technical Conference on Economy of Fuel and Electric Power in the Engineering Industry, December 1957, Moscow.

| Promyshlennava Energetika, 1958, vol. 13, No. 3, pp. 33-35 (see author card for GCRIN, F. I.)

ZLATOPOL'SKIY, A.N.; ZAVADSKIY, I.M.; PRUZNER, S.L.

"Effective use of secondary power resources" by N.M.

Vilenskii. Reviewed by A.N.Zlatopol'skii, I.M.Zavadskii,

S.L.Pruzner. Prom.energ. 19 no. 4:60-61 Ap '64. (MIRA 17:5)

ZAVADSKIY, I.M. Methods and practice for calculating the cost of steam produced by reclamation boilers. Mauch.dokl.vys.shkoly; energ. no.3121-125 158. (NIRA 12:1) 1. Bekomemiovano kafedroy ekonomiki energetiki Moskovskogo energeticheskogo instituta. (Boilers)

ZAVADZKIY, K

POLAND/Cultivated Plants - Technical. Oleaginous. Sugar-Bearing. L-5

Abs Jour

: Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69336

Author

Zavadzkiy, K.

Inst Title

: The Content of Citric Acid in Tobacco and Makhorka.

Orig Pub

: Acta agrobot., 1956, 4, 3-11

Abst

: Analyses of different specimens of tobacco and makhorka cultivated in Poland have shown that the largest quantity of citric acid is accumulated in makhorka and the smallest in tobacco. As the plant grows and develops, the rate of citric acid accumulation increases. As the quality of cigarette tobaccos worsens, the content of citric acid increases and the quantity of nicotine decreases.

Card 1/1

ORLOV, V.P., kand.sel'skokhoz.nauk. Prinimeli uchastiye: AVROV, E.N.;

EASEHKO, P.V.; VARLAHOV, D.A.; VASIL'YEV, I.I.; VIASOV, V.H.;

VILSGZRANINA, V.A.; ZHIVET'YEV, V.G.; ZAVADSKIY, I.S.; ZALESSKIY,

Ye.Ya.; ZAKCHYUKIN, D.S.; ISHCHERKO, I.N.; KACHIBATA, I.D.; KISS
LEV, Ye.S.; KOZHEVHIKOV, I.Z.; LISITSTN, V.I.; MESHCHERKOV, V.F.;

NUBRIN-VERTSBERG, R.L.; PEREPELITSA, V.M.; RYABKOV, A.D.; SEURIKHIN,

I.P.; SOLOV'YEV, N.A.; YAS'KO, N.G., GREBTSOV, P.P., red.; ZUBRILHA,

Z.P., tekhn.red.

[Our farms in 1965] Mashi khozisistva v 1965 godu. Moskva, Gos.

izd-vo sel'khoz.lit-ry, 1959. 230 p. (MIRA 13:2)

(Agriculture)

LANGUROV, I.Z., kand. tekhn.nauk; ZAVADSKIY, K.Y., insh.; GALLE,
A.G., inzh., retsenzent; KRICH, B.V., insh., retsenzent;
PANKOV, A.M., inzh., retsenzent; SHISHLIKOV, Ye.S., inzh.,
red.; USENKO, L.A., tekhn. red.

[Organization of the transportation of bulk liquid cargo]
Organizatsiia perevozok nalivnykh gruzov. Moskva, Transzheldorizdat, 1963. 269 p. (MIRA 16:4)

(Tank cars) (Railroads--Freight)

ZAVADSKIY, K.1., inzh.

What are the advantages of the specialization of tank cars?
Zhel. dor. transp. 46 no.10:25-26 0 16%.

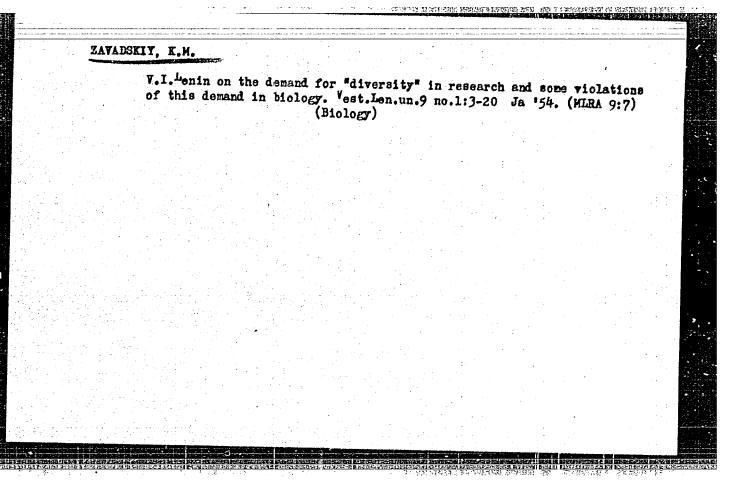
(MIRA 17:11)

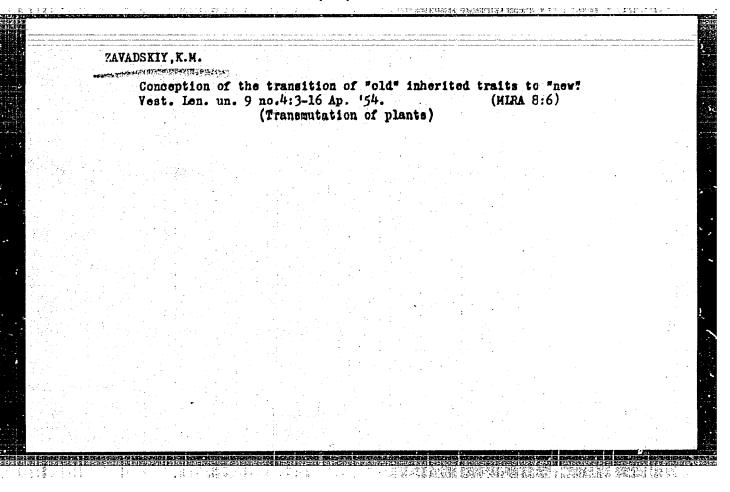
Growth (Plants)									
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- 2. USSR (600)
- 4. Species, Origen of
- 7. Progressive importance of the views of V.L. Komarov on the reality and completeness of species, Vest. Len un. 7 no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, unchass.





ZAVADSKIY, K.M., dotsent, rukovoditel' seminara.

Some problems in the theory and the formation of species, Vest.
Len.un. 9 no.10:7-15 0 '54. (MIRA 8:7)

1. Zaveduyushchiy kafedroy darvinizma (Origin of species)

ZAVADSKIY K.M

SHISHKIN, B. K., professor; ROMANKOVA, & G., kandidat biologicheskikh nauk, starshiy naychnyy sotrudnik; MARKOV, G. S., doktor biologicheskikh nauk dotsent; DAHILLEVSKIY, A. S., Kandidat biologichenkikh nayk, dotsent; SHTEYNBERG, D. M., doktor biologicheskikh nauk; LOMAGIN, A. G. aspirant; SELL'-BEKMAN, I. Y., mladshiy naychnyy sotrudnik; ZHINKIN, L. N., doktor biologicheskikh anuk, professor; IFATOV, V. S., student V kursa; KOZLOV, V. Ye., kandidat biologicheskikh nayk, starshiy nauchnyy sotrudnik; KARTASHEV, A. I. kandidat biologicheskikh nauk, starshiy nauchnyy sotrudnik; NITSENKO, A.A, STARSHIY NAychnyy sotrudnik; VASILEVSKAYA, V. K., doktor biologichoskikh nauk, dotsent; RYUMIN, A. V., kandidat biologicheskikh nauk; NAUMOV, D. V., Kandidat biologicheskikh nauk, mladshiy nauchnyy sotrudnik; KHOZATSKIY, L. I. kandidat biologicheskikh nauk, dotsent; GOROBETS, A. M., kandidat biologicheskikh nauk, starshiy nauchnyy sotrudnik; GODLEVSKIY, V. S., assistent; GERBIL'SKIY, N. L., doktor biologicheskikh nauk, professor; Aleksandrov, a. d., professor; KOLODYAZHNYY, V. I.; TURBIN, N. V.; ZAVAD SIY, K. M.

Theory of species and the formation of species. Vest. Len un. 9 no. 10:43-92 0 '54. (MLRA 8:7)

1. Chlen-korrespondent Akademii nauk SSSR (for Shishkin, Aleksandrov)

(Continued on next card)

SHISHKIN. B.K., professor; ROMANKOVA, A. G., Kandidat biologicheskikh nauk, starshiy naychnyy sotrudnik, and others.

Theory of species and the formation of species. Vest. Len. un. 9 no. 10:43-92 0 154. (MIRA 8:7)

2. Leningradskiy gosudarstvennyy universitet (for Shishkin, Romankova, Markov, Ipatov, Kozloz, Kartashev, Godlevskiy, Gerbil'skiy, Aleksandrov)
3. Zoologicheskiy institut Akademii nauk SSM (for Shteynbetg, Naumov)
4. Kafedra entomologii "eningradskogo gosudarstvennogo universiteta
(for Danilevskiy). 5. Kafedra darvinizma Leningradskogo gosudarstvennogo universitete (for Lomagin, Gorobets). 6. Kafedra geobotaniki Leningradskogo gosudarstvennogo universiteta (for Nitšenko). 7. Kafedra botaniki Leningradskogo gosudarstvennogo universiteta (for Vasilevskaya). 8. Kafedra zoologii pozvonochnykh Leningradskogo gosudarstvennogo universiteta (for Khozatskiy). 9. Leningradskogo gosudarstvennogo universistituta udobreniy, agropochvovedeniya i agrotekhniki (for Sell'-Bekman)
10. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk

(Origin of species)

ZAVA	IGRIY, K.M.		
	Causes of the dying cut of plants in hill plantings sity in relation to sizes of hills and conditions o lizing. Bot.zhur. 39 no.4:515-544 JI-2g '54.	of warping den- f mineral ferfi- (HLRA 7:10)	
	1. Leningradskiy Gosudarstvennyy universitet im, A. (Field crops) (Growth (Plants))	A.Zhdanova.	

#EM+IFFEY	DSKIY, K. ()\') Letter to the	editor of "Botanicheski	1 zhurnal " Rot whe	r 10 no h	
	0 10 11 AL-AP 154.	BotanyPhysiology)	(N)	ER 7:10)	
		물문물량 경기하면 하다. 임원회 기계를 보고하다.			

Scientific legacy of I.V.Michurin and some problems of biology. Bot.shur.41 no.1:3-22 Ja '56. (MIRA 9:6) 1.Leningradskiy gosudarstvennyy universitet imeni A.A.Zhdanova. (Michurin, Ivan Vladimirovich, 1855-1935)

	Overpopulati	le in evoluti (Plants, Spac	r. 42 no.3:426 (MIRA 10:5 nt of)	-1419)

Object and problems of modern Darwinism. Bot. 2 Mira 10:5) Ap '57. (Evolution)		Y, K.M.					112 - h 587	605	
		Object and	l problems	of modern	Darwinism.	Dot. znur.	(MIRA 10:	5)	
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ZAVADSKIY, K.M.

Category: USSR/General Biology. Evolution.

Abs Jour: Referat Zh.-Biol., No 6, 25 Narch 1957, 21001

Author : Zavadskiy, K.M.

Inst : not given

: Some problems concerning the theory of species and origin Title

of species.

Orig Pub: Vestn. Leningr. un-ta, 1954, No 10, 3-15

Abstract: It is pointed out that it is insufficient to study species

only from the morphological-geographical point of view. A full characterization of species, in the author's view, must include 10 factors (organization, quantity, reproduction, discreteness, expansion, life niche, historicity, stability, diversity, completeness). The author believes that T.D. Lysenko and his followers base themselves on a simplified concept of species. From this follow their basic errors, particularly, the identi-

fication of individual variability with the historical process

: 1/2

Category: USSR/General Biology. Evolution.

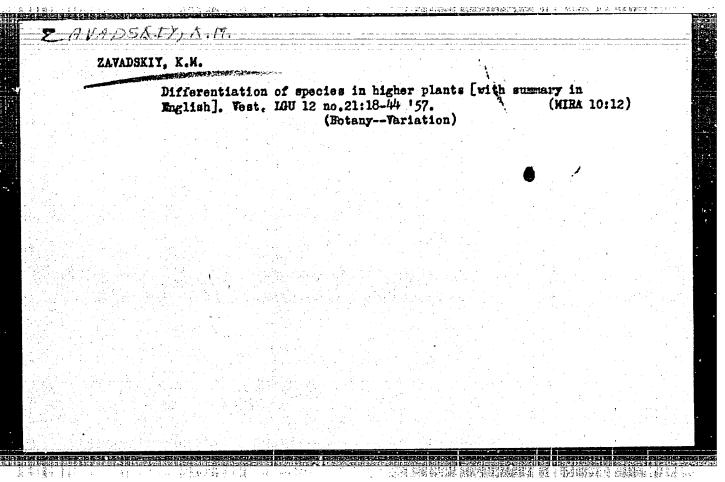
B-7

Abs Jour: Referat Zh.-Biol., No 6, 25 March 1957, 21601

of origin of species. It is emphasized that attempts to explain the supposedly observed transformation of specimens of one species into another proved worthless. Ordinarily, it is not taken into account that the species indices are closely interrelated and present a single totality. The formula of assimilation of life conditions by the organism does not explain how complicated adaptations could arise as a result of sudden changes. It is noted that the assertion that the concept of species and origin of species supposedly had a great national economic significance proved to be unfounded. The discussion brought out that the problem of methods in proving the new theory of origin of species by their adherents was underestimated and showed incorrect methods in their struggle with representatives of other points of view.

Card : 2/2

-2-



Zavadskiy, K.M.

USSR / General Biology. Evolution

B-7

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 356

Author : Zavadskiy, K.M.

Inst : Not Given

Title : Subject and Problems of Contemporary Darwinism. A Discussion

Orig Pub : Botan. zh., 1957, 42, No 4, 583-595

Abstract: Darwinism (D) in a narrow sense is a doctrine by Ch. Darwin of evolution based on natural selection; in a broad sense it is a science of general laws governing historical development of living nature. As new progress was created in the field of biology (evolutionary morphology, ecology, genetics and others) the subject matter of D was changed. Contemporary D is a direct continuation and natural development of Darwinian doctrine, but it synthesizes an enormous quantity of new facts and conclusions. The subject of D is the study of natural selection as a single historical process which stems from a base of joint and connected action of all its factors. The

Card : 1/3

USSR / General Biology. Evolution

2/3

Card

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 356

basic problem consists of correct understanding of the correlation of single evolutionary factors. A brief characterization of the struggle for D is given, and its corroboration in all branches of biology, among them in genetics. The author criticizes the terms "contemplative D", "creative D", Micharin D" which appear in the literature, and points out that Darwin's theory never was contemplative and that authors who declared the birth of "creative D" often departed from D in general. The work of I.V. Michurin is a massive contribution to D development, but it cannot serve as a basis for acknowledging a special science. The general problems facing D are enumerated: the unfloding of experimental study of all links in the process of natural selection; the development of theoretical studies on basic problems of evolution and development of methods on managing the evolutionary process; intensifying criticism of idealistic views and further development of dialectic-materialistic bases of D. A number of concrete problems of D are also indicated (on limitation, forms, tempo and direction of natural selection; on interrelation between selection and the direction of hereditary changes, etc.). A reasoned conclusion is arrived at as to the naces-

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B-7

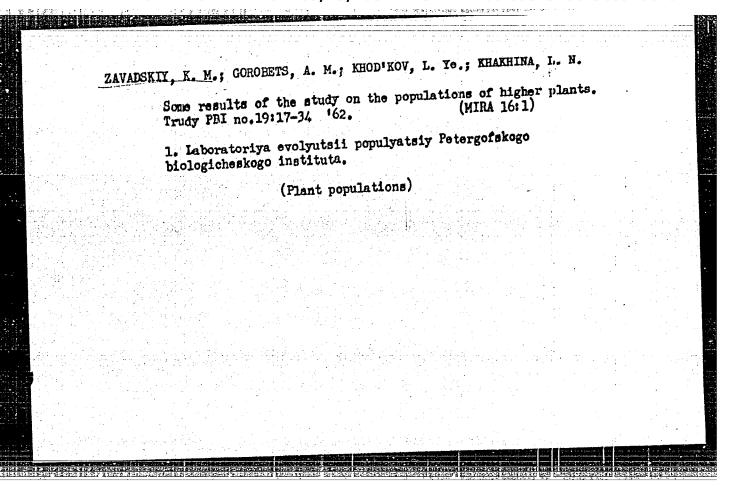
UBSR / General Biology. Evolution

B-7

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 356

sity of existence and further development of D as a special science on general laws of evolution, which is of great significance in formation of a materialistic view of the world.

Card : 3/3



ZAVAD	Work of the Departs	ment of Darwinism. (PlantsEvolution	Vest ICU 16 no.23 (MEA 14:	:152- 11)
				11: 1: 1:

ZAVADSKIY, Kirill Mikhaylovich; SINSKAYA, Ye.N., doktor biol, nauk, doktor sel'khoz. nauk, otv. red; FETROVICHEVA, O.L., red.; VODOLAGINA, S.D., tekhn. rod.

[Studies on species] Uchenie o vido. Leningrad, Izd-vo Leningr. univ., 1961. 253 p. (MIRA 14:12)

(SPECIES)

ZAVADSKIY, K. M.

B-6

USSR / General Biology. Evolution.

Abs Jour: Ref Zhur-Biol., No 18, 1958, 81099.

: The Problem of Species Differentiation in Higher Author

Inst Title

Orig Pub; Vestn. Leningr. un-ta, 1957, No 21, vyp. 4,

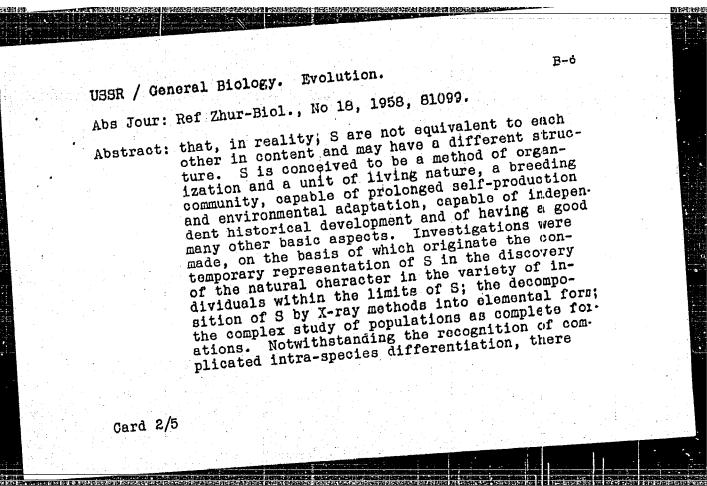
Abstract: In contemporary literature, different points of view exist on the structure of species (S). Any single representation of the S content, which could be applied to all groups of living organisms, does not exist, and attempts to find such a species "pattern" of a universal

significance would lead to great confusion. The author proposed to proceed from the premise

Card 1/5

23

CIA-RDP86-00513R001963920018-2" **APPROVED FOR RELEASE: 03/15/2001**



STREET OF THE PROPERTY OF THE

USSR / General Biology. Evolution.

B-

Abs Jour: Ref Zhur-Biol., No 18, 1958, 81099.

Abstract: does not exist as yet a universal system of classification of intra-species units. On the basis of comparison of a series of morphological, geographic and ecologically-genetic systems, a conclusion was arrived that the natural dismemberment of S corresponds more closely to the systems of classification, submitted by Sinskaya, as well as by Clausen. The indigenous (local) population was acknowledged to be the elementary structural unit of S, and given its identification. The problem of composition and structure of the indineous population was examined. In this connection, opinions were critically analyzed, in accordance with which the smallest structural unit of S is acknowledged to be not the indigenous population, but the

Card 3/5

24

USSR / General Biology. Evolution.

B-6

Abs Jour: Ref Zhur-Biol., No 18, 1958, 81099.

Abstract: ment. The morphobiological groups are reproduced by the population in different ways, and sometimes appear, in a considerable degree, as self-productive units. In complex populations, their structure in the optimum state is safeguarded by three apparatuses: populationallygenetic, individually-physiologic (modificative and inductively-sequential.

Card 5/5

CIA-RDP86-00513R001963920018-2" APPROVED FOR RELEASE: 03/15/2001

POLAND

PO/0096/66/000/004/0315/0320

AUTHOR: Aldova, Eva; Zavadsky, Marian

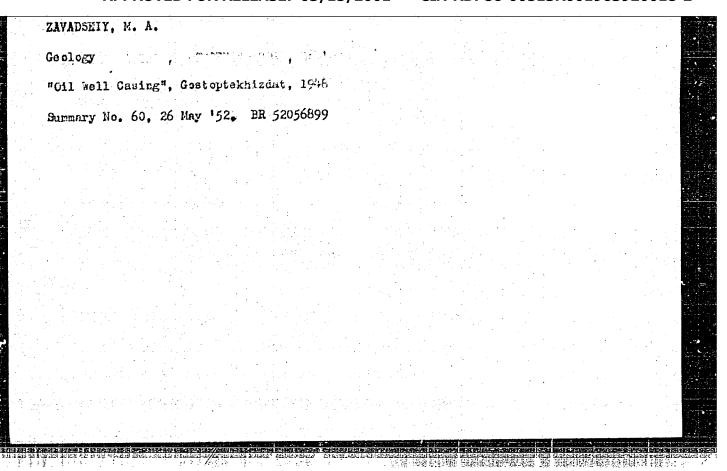
ORG: Institute of Epidemiology and Microbiology, Prague (Zaklad Epidemiologii i Mikrobiologii)

TITLE: Shigella sensitivity to antibiotics.

SOURCE: Medycyna doswiadczalna i mikrobiologia, no. 4, 1966, 315-320

TOPIC TAGS: antibiotic, sulfonamide, streptomycin, tetracycline, microbiology, epidemiology, Shigella, chloramphenicol, terramycin, antibiotic resistance, sulfonamide resistance

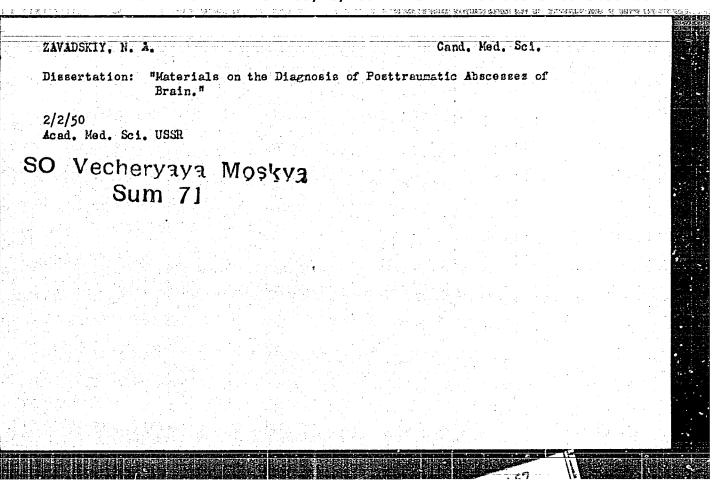
ABSTRACT: A comparison of 476 random-selected Shigella flexneri and sonnei strains, isolated in Czechoslovakia, Hungary, and Poland, showed that they possessed general resistance to the antibiotics chloramphenicol, streptomycin, terramycin, and tetracycline, and to sulfonamides. Of all strains tested and compared only four, while resistant to two antibiotics (one in Czechoslovakia to chloramphenicol and streptomycin, and three in Hungary and Poland to tetracycline and streptomycin), were sensitive to sulfonamides. All remaining strains were sulfonamide-resistant.



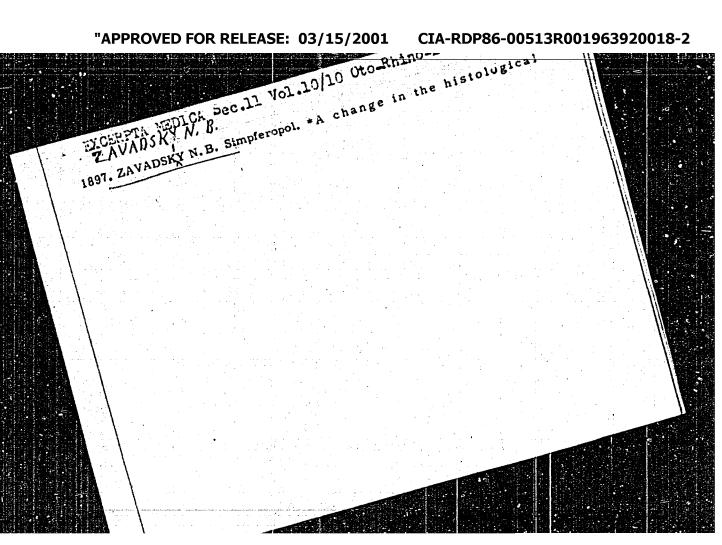
ZAVADSKIY, N. A.			· · · · · · · · · · · · · · · · · · ·
The coal of southern Kazakhstan. izd-vo, 1935. 57 p. maps. (50	. Alma-Ata Kazakstanskoe k 0-40917)	raevos	
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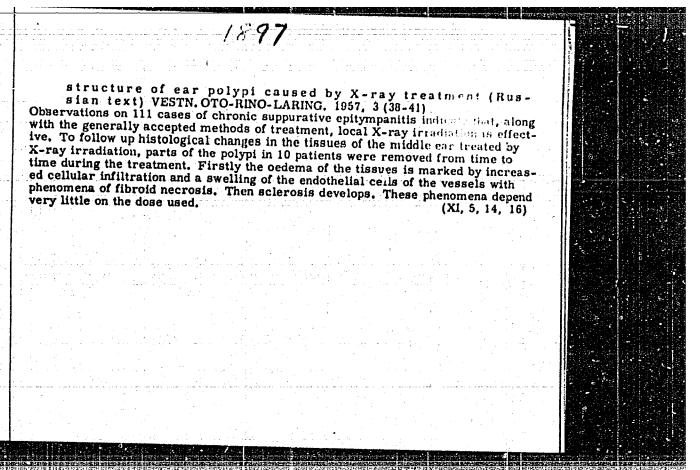
ZAVADSKIY. Nikolay Antonovich

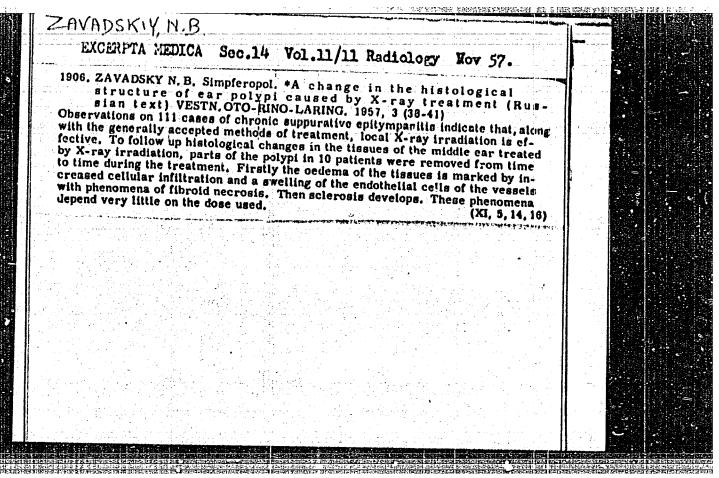
[Late consequences and complications of penetrating wounds of the skull and brain] Otdalennye posledstviia i oslozhneniis pronikaiushchikh ranenii cherepa i mozga. Kirov. Kirovskos knizhnos izd-vo. 1956. 134 p. (MIRA 13:9) (BRAIN--WOUNDS AND INJURIES)

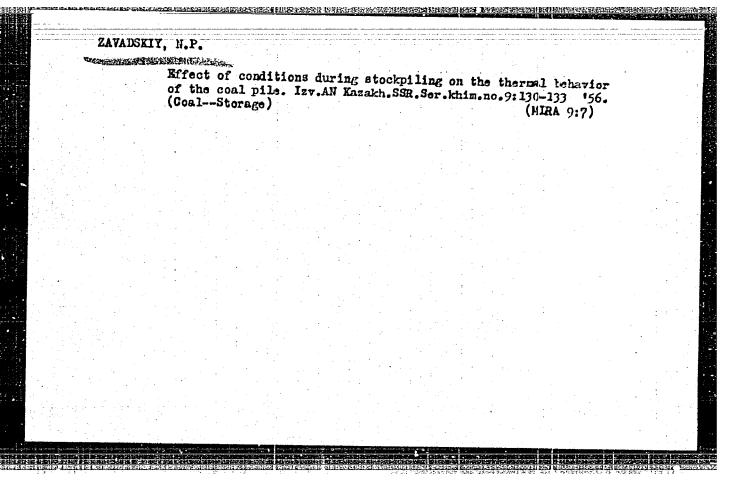


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THE RESIDENCE OF THE PROPERTY OF THE PROPERTY OF STREET, STREE

ALEKSEYEV, Ye.T.; APENCHENKO, S.S.; RASOV, A.P.; RAUSIN, A.F.; MINSHADSKIT, L.S.; VELLER, M.A.; GIHZBURG L.:N.; GUSEV, S.A.; DANILOV, G.V.; DOLGIEH, M.S.; DRUZHININ, H.N.; YEFIMOV, V.S.; ZAVADSKIY, H.V.; IVASHPCHKIE, H.V.; KARAKIN, F.F.; KUZHMAH, G.I.; LORANOV, S.P.; MERKULOV, Ye.V.; NIKODINOV, P.I.; PANKRATOV, N.S.; PYATAKOV, L.V.; RODICHEV, A.F.; SHIRNOV, M.S.; STRUKOV, B.I.; SAVOCHKIH, S.M.; SAMSONOV, H.H.; SINITSYH, N:A.; SOKOLOV, A.A.; SOLOPOV, S.G.; CHELYSHEV, S.G.; SHCHEPKIN, A.Ye.

Fedor Nikolaevich Krylov; obituary. Torf. prom. 35 no.6:52 '58.

(Krylov, Fedor Nikolaevich, 1903-1958)

ZAVADSKIY, N.V.

Histological changes of ear polypi induced by X-rey treatment [with summary in English]. Vest.oto-rin. 19 no.3:38-41 My-Jo '57.

1. Iz kliniki bolesney ukha, gorla i nose (zav. - prof. A.M.Reynus)

Krymskogo meditsinskogo instituta.

(ARR, MIDJE, neoplasms

polypi, histol. changes after x-ray ther.)

(POLIFI, pathol.

middle ear, histol. changes after x-ray ther.)

USSR/Human and Animal Morphology - Normal and Pathological. Sense Organs. S

Abs Jour

: Ref Zhur Biol., No 11, 1958, 50404

Author

Zavadskiy, N.V.

Inst Title

A Change in the Histological Structure of Ear Polypi

Caused by X-Ray Treatment

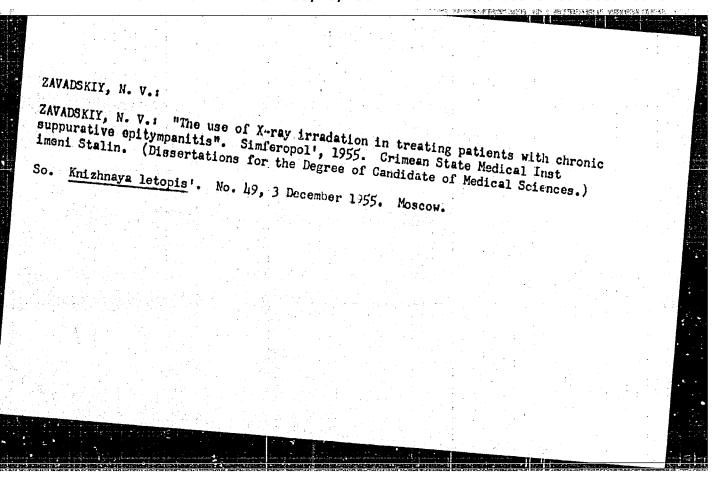
Orig Pub

Vestn. oto-rino-laringologii, 1957, No 3, 38-41

Abstract

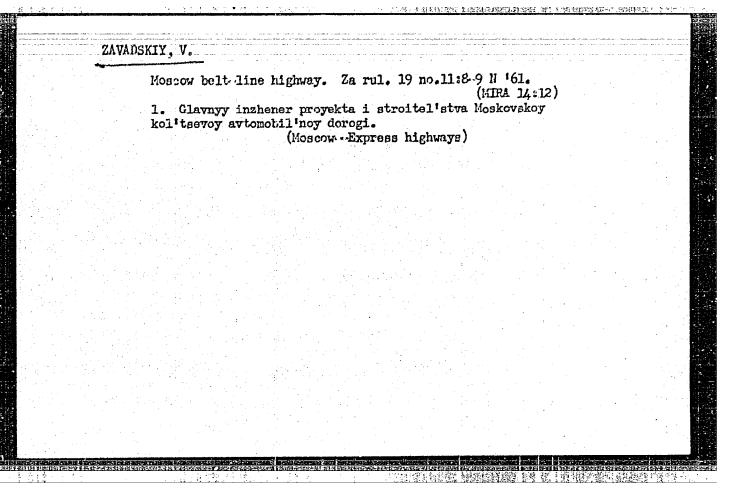
Histological changes of ear polypi in 10 patients with chronic purulent epitympanites were studied. 5-7 days after the start of irradiation (total dose by this time was 75-200 r.), an intensification of the edema of connective tissue of the polypus, an increase of cellular infiltration, a swelling of the endothelium of the capillaries, and sometimes disturbance of the structure of the vascular wall with symptoms of fibrinoid necrosis were noted. 25-30 days after irradiation the infiltrations

Card 1/2

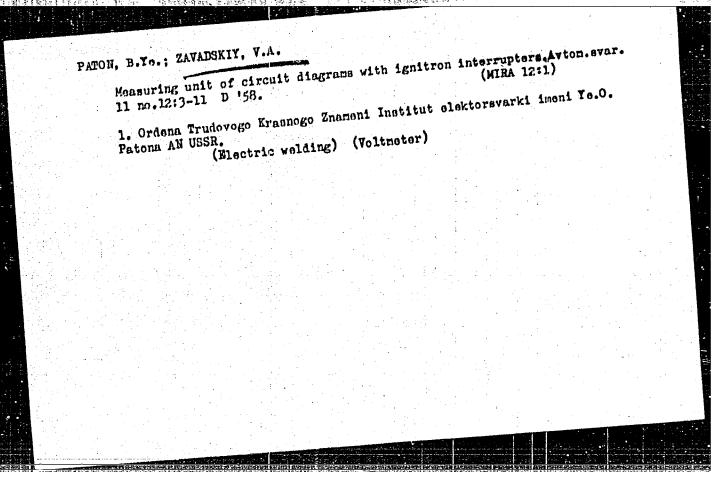


ZAVADSKIY, V.				
USSR (600)				
Automobile Drivers				
Work practice of Stakhanovi	te driver I. T. Pa	vinskii. Sakh. pro	om. 26 No. 8. 1952.	
9. Monthly List of Russian	Accessions, Libra	ry of Congress.	November 105& i	inal
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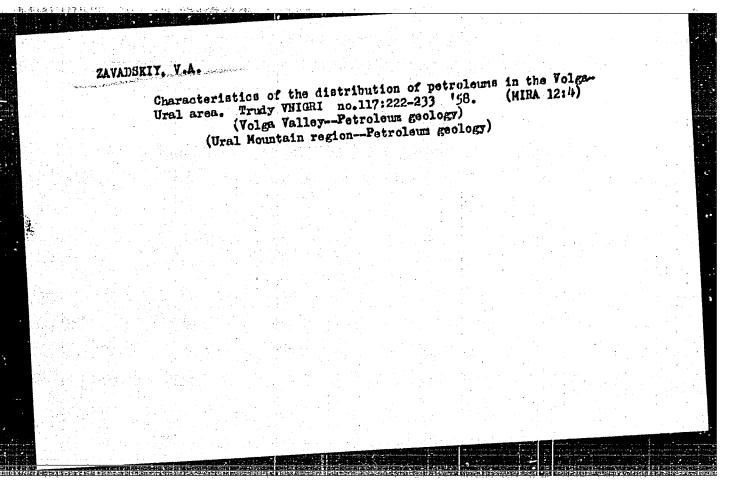
USSR (600)								
Peets and Be	et Sugar -	Transporta	tion					
Work practic	e of Stakle	novite dri	ver 1.T. P	avinekii.	Sakh. pr	on. 26 no	8, 1952.	
		sian Access						*



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ZAVADSRIY, V.A. Measurements of the effective values of the current of resistance welding machines with ignitron interrupters. Avtom. svar. 17 no.3: 9-12 Mr '64. (MIRA 17:11) 1. Institut elektrosvarki im. Ye.O. Patona AN UkrSSR.



ZAVADSKIYN Subject : USSR/Engineering AID P - 858 Pub. 11 - 4/13 Card 1/1 Authors : Paton, B. Ye. and Zavadskiy, V. A. A STATE OF THE PROPERTY OF THE PARTY OF THE Title : The impulse are ignition considerably lowers the voltage of the welding transformer Periodical: Avtom. svar., #4, 46-52, J1-Ag 1954 : The use of impulse ignition is offered for lowering the open-circuit voltage of the welding transformer, connected either in series or parallel with the impulse generator. The welding circuit is adjusted for automatic control of Abstract the welding arc. Three circuit diagrams, 9 oscillograms and 3 Russian references (1950-1954). Institutions: Institute of Electric Welding im. E. O. Paton Academy of Sciences, Ukrainian SSR Submitted: My 10, 1954

PATON, R.Ye.; ZAVARSKIY, V.A.

New diagram for ignitron starting in resistance welding machines.
Avtom. svar. 11 no.7:48-51 Jl '58. (MIRA 11:9)

1.Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im.
Ye. O. Patona AN USSR.

(Electric welding--Equipment and supplies)

AUTHOR:

Faton, B.Ye., and Zavadskiy, V.A.

125-58-7-8/14

TITLE:

A New Ignition Circuit of Ignitrons in Contact Welding Machines (Novaya skhema zazhiganiya ignitronov v mashinakh

dlya kontaktnoy svarki)

PERIODICAL:

Avtomaticheskaya svarka, 1958, Nr 7, pp 48-51 (USSR)

ABSTRACT:

A new circuit of independent ignitron ignition is suggested which does not require the use of lead resistances. The square shape of the voltage curve of the current feeding the ignitron igniter circuit is obtained by the use of a ferro-resonance circuit. This ensures a continuous magnitude and shape of the current pulse in the ignition circuit. The described method was tested with good results in butt flash welding. It is suggested that this circuit be used in other contact welding machines equipped with ignitron interrupters. There are 2 circuit diagrams, 1 oscillogram, and 1 Soviet

reference.

ASSOCIATION: Institut elektrosvarki imeni Ye.O.Patona AN USSR (Institute of Electric Welding imeni Ye.O. Paton, AS UkrSSR)

Card 1/2

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A New Igniti	on Circuit of Ignitrons in Contact Welding Machines 125-58-7-8/14
SUBMITTED:	March 28, 1958
	1. Resistance welding machines—Control systems 2. Ignitrons—Circuits 3. Electric igniters—Applications
Card 2/2	

1(5) FELME I DOOK EXPLOITATION SOW/AB97 Vessoyumay meityanog namehno-issiedowatel'skip geologorawredochmyy Institut. Volge-Ural'skoy oblastil shruhit statey (Grigin of Peroleum in Collection of Articles) brunkit statey (Grigin of Peroleum in Collection of Articles) leaningsed, Ostopischiadt, 1958, 283 p. c. M.: Einsidy L'voruy Rayalaj Eroc. Ed.: G.A. Dayevy Fech. Ed.: I.M. Gommed yers. FUNCAS: This book is intended for geologists and geochemists. Purching: This book is intended for geologists and geochemists, advertigation of articles deal with the origin development, and structure of oil deposits. CUTERIOR: Permiss of the Volge-Ural district and methods of deferming possible petroleum source-beds. The lithologic and seventer of oil deposits are discussed as are the conditions of oil deposits are discussed as	Following geologies working in the Scene author thanks the ministry, to the Scene author thanks the professor, and the findless of the Scene author thanks the second account to the State and article and annount against the second account to the State and article and annount against the State and article and article and the State and article article article article article and article
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	sov/125-59-12-3/18
25(1)	Zavadskiv. V.A.
AUTHORS:	Paton, B.Ye. and Zavadskiy, V.A. Some Peculiarities of Welding Current Control Systems Total Total Total Total Control Systems
TITLE:	Some Peculiarities of with Ignitron Interrupters with Ignitron Interrupters
PERIODICAL:	Aytomaticheskaya svarka, 1959, Nr 12, pp 22
ABSTRACT:	considered and with the upo
	characteristic voltage and the ignoraties of the between the welding voltage and static properties of the
	systems are corresponding to the ignitron breaker statical regimes corresponding to the ignitron breaker
	are easily amount and the welding machine and the loss of teristics of the welding machine and the loss of
	characteristics of the current regulator. This characteristics of the current regulator. This characteristics of the current regulator. This characteristics of the control by the ignitrons each half-period has a subcontrol by the ignitrons each half-period has a subcontrol by the ignitrons each half-period has a subcontrol by the ignitrons on the dynamic properties of the stantial influence on the dynamic properties of the
Card 1/3	stantial initialization of the stantial initial init

SOV/125-59-12-3/18

Some Peculiarities of Welding Current Control Systems with Ignitron Interrupters

system. To make an automatic control which would fully work off the disturbances in the half-period following their appearance it is necessary to use rather complicated and quick-working parts for the computing devices. During the half-period, these parts must accurately determine the necessary ignition angle of the ignitron. Sufficiently high dynamic properties of the control can be obtained by the introduction of an inertial link. The magnitude of the time constant of this link depends on the amplification coefficient of the control, the permissable mismatch and the work section of the control characteristic. There are 4 graphs.

ASSOCIATION:

Ordena trudovogo krasnogo znameni Institut elektrosvarki im. Ye. O. Patona AN UkrSSR (Order of the Red Banner of Labor Institute of Electric Welding Imeni Ye. O. Paton of the AS UkrSSR).

Card 2/3

Somo Pocularities of Welding Current Control Systems with Ignitron SUBMITTED: October 23, 1959. Card 3/3			e salvan elektrikek	rang mali ana si ang lagure	20. 可数据数据表表 电重要 特於 10.0
Some Pecularities of Welding Current Control Systems with Ignitron Interrupters SUBMITTED: October 23, 1959.					
Some Pecularities of Welding Current Control Systems with Ignitron Interrupters SUBMITTED: October 23, 1959.			SOV/125-	59-12-3/18	
전투하다. 1.12년 1.13년 1.13년 1.13년 1월 1.13년 1월 1.13년 1	Somo Pecularities of Welding Current Interrupters	Control Sys	toma with	Ignitron	
	SUBMITTED: October 23, 1959.				
				V	

ZAVADSKIY, V.A.

Data on the paleoecology of the upper Devonian brachiopods of the western Urals. Sbor.nauch.rab.stud. LGI no.2:9-12 157. (MIRA 13:4)

1. Leningradskiy ordenov Lenina i Trudovogo Krasnogo Znameni gornyy institut im. G.V.Plekhanova. Predstavleno kand.geologomineralog. nauk N.Ya. Spasskim. (Ural Mountains-Brachipoda, Fossil)

AUTHORS: Paton, B.Ye. and Zavadskiy, V.A. SOV/125-58-12-1/13

TITLE: A Measuring Device for Circuits With an Ignitron Breaker (Iz-

meritelinyy organ skhem s ignitronnym preryvatelem)

PERIODICAL: Avtomaticheskaya svarka, 1958, Nr 12, pp 3-11 (USSR)

ABSTRACT: Various systems for measuring effective current values and voltages are analyzed. A circuit of a measuring device is

suggested consisting of a non-linear active resistance in the form of an electronic tube and capacitance. The input voltage feeds the anode circuit of the tube, and the re-

sistance switched in the tube grid is a variable parameter. The use of one, two or four triodes increases the admissible changes of voltage from 50 to 200 v. The advantage of the system is the possiblity of changing the characteristics with the use of grid resistance. The measuring device can

measure effective values of the input voltage with changes of the ignitron ignition angles from 30 to 150°. The device can be recommended for automatic control of circuits and for

measuring the effective value of welding currents in con-

tact machines.

Card 1/2 There are 8 sets of circuit diagrams and 5 graphs.

SOV/125-58-12-1/13

A Measuring Device for Circuits With an Ignitron Breaker

ASSOCIATION: Institut elektrosvarki imeni Ye.O. Patona AN USSR (The In-

stitute of Electric Welding imeni Ye. O. Paton, AS Ukr SSR)

SUBMITTED: October 21, 1958

Card 2/2

PATON, B.Ye.; ZAVANSKIY, V.A. Pulse method of arc striking in shielded and manual arc welding. Avtem.svar.9 no.3:26-35 My-Je '56. (MURA 9:9) 1. Ordena Trudevege Krasnege Znameni Institut elektresvarki imeni Ye.O.Patena AN USSR. (Electric welding)

1.2300

29049 s/125/61/000/010/009/014 D040/D112

AUTHOR:

Zavadskiy, V.A.

TITLE:

Seam-welding telescopic pipe joints of lKhl.8N9T steel

PERIODICAL:

Avtomaticheskaya svarka, no. 10, 1961, 74-77

TEXT: Welding experiments were conducted with a modified MUNT-50 (MShPT-50) resistance welder in view of frequent weld defects, i.e. reduced weld core or a gap at the closing point of the annular seam, occurring during the welding of thin-wall pipes of 1×18H9T (1khl8N9T) steel with the use of a backing copper insert (Fig. 1). The cause of the defects was unequal deformation of the pipes and the formation of a gap between the pipe walls in front of the welding roller, resulting from the unequal heating of the pipes, which in turn was due to the difference in contact surface area between the outer roller and outer pipe and the inner roller and the inner pipe. Besides, the pressure exerted by the rollers was insufficient to close the gap. Calculation proves that equal contact areas of the outer and inner rollers are obtained when

Card 1/4

29049 8/125/61/000/010/009/014 D040/D112

Seam-welding telescopic ...

$$\frac{1}{R_2} - \frac{1}{R_4} - \frac{1}{R_3} + \frac{1}{R_1}$$

where R₁ is the radius of the outer roller; R₂ - the radius of the inner roller; R₃ - the external radius of the outer pipe; R₄ - the internal radius of the inner pipe (Fig. 2). The design of the new MShPT-50 welder is described and illustrated in a photograph and a cross-sectional diagram. It includes a chain drive for the outer roller, and water cooling. Welding was carried out with a 35.5 + 41 amp current in the primary winding in the transformer, 160 kg compression effort, a welding pulse time of 3T and an interval time of 10T, a welding speed of 160 mm/min, an outer roller 210 mm and an inner roller 20 mm in diameter, and a 4 mm work surface width on the rollers. The welds were sound and the depth of the core amounted to 50÷70% of the total thickness of the pipe walls. It is suggested to improve the ignition stability of the ignitrons by connecting an RC circuit (Fig. 8)

Card 2/4-

Seam-welding telescopic ...

29049 S/125/61/000/010/009/014 D040/D112

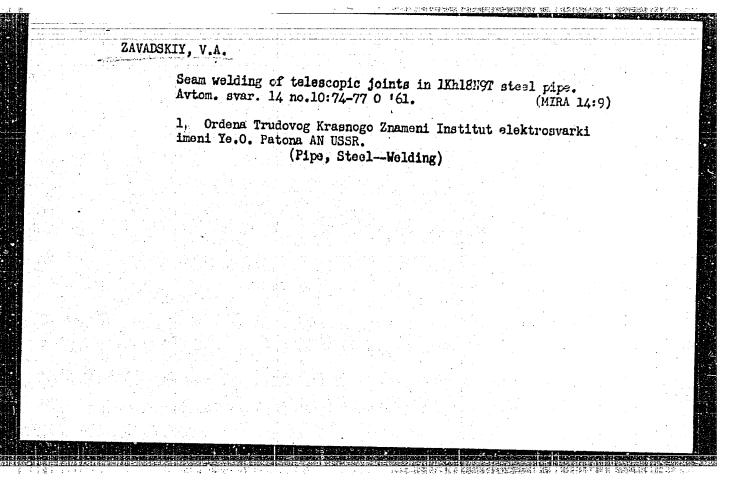
with a 10 ohm resistance and 6-10 μ f capacitance in parallel to the primary winding of the welding transformer. The following conclusions are drawn: (1) the diameters of the inner and outer rollers must be so chosen so as to produce equal initial contact areas between them and the inner surfaces of the pipes; (2) mechanical drive is necessary for both rollers; (3) it is advisable to use an RC circuit in the welding circuit. There are 8 figures.

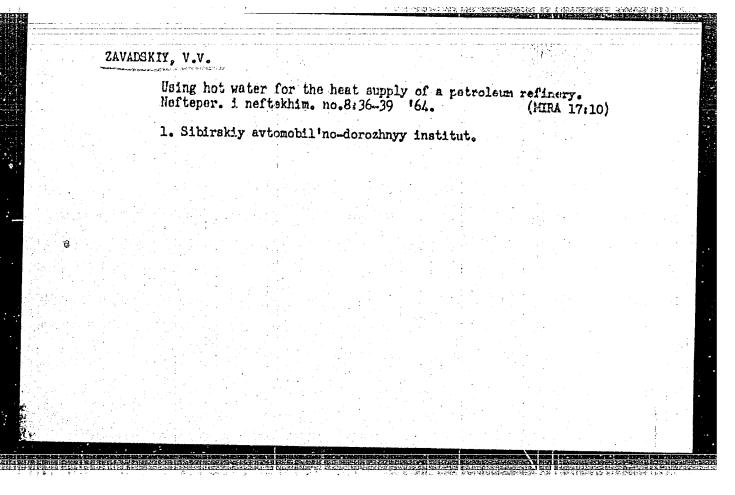
ASSOCIATION: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im.

Ye.O. Patona AN USSR (Electric Welding Institute "Order of the Red Banner of Labor" im. Ye.O. Paton of the AS UkrSSR)

SUBMITTED: February 23, 1961

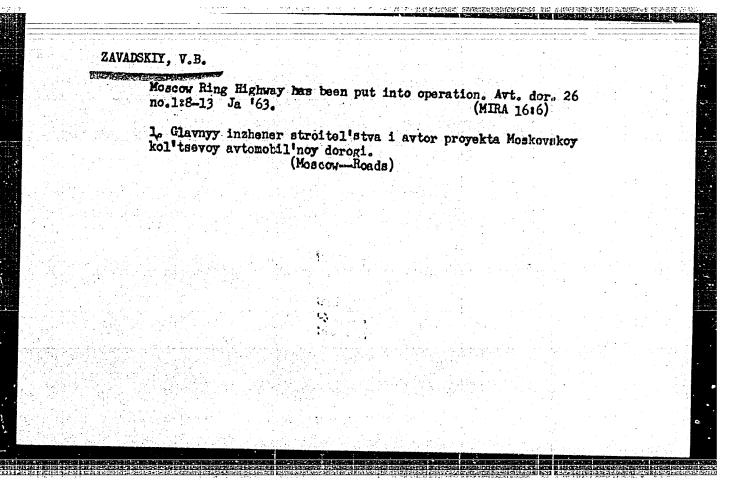
Card 3/4



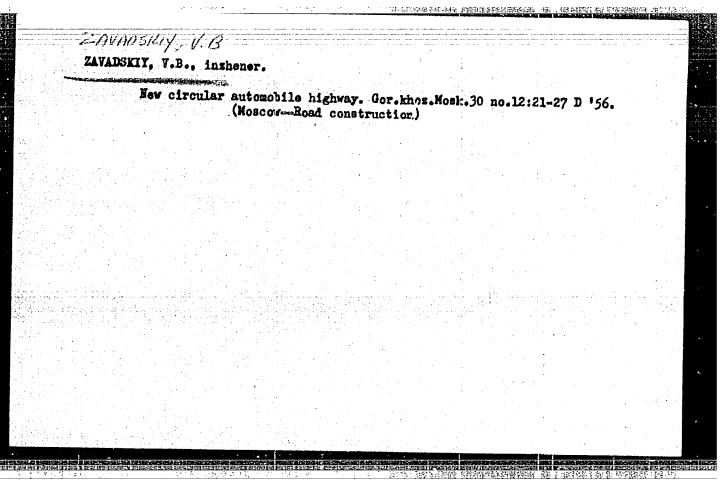


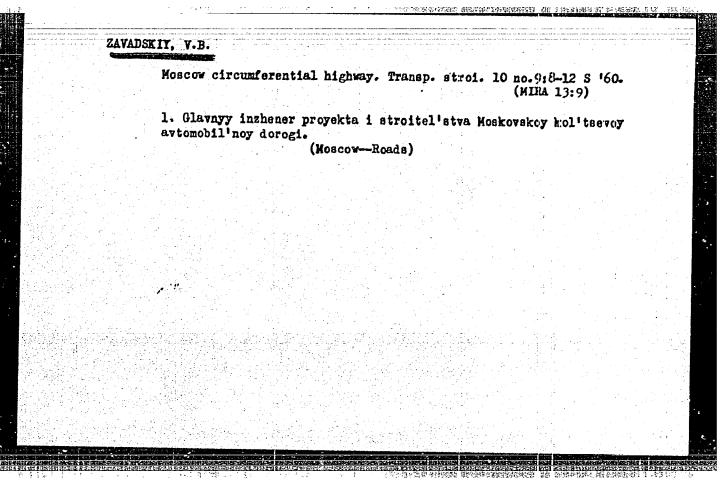
Wave motion in an elastic inhomogeneous layered medium with a power law density variation and Lamé parameters. Akust. zhur. 10 no.1:119-122 '64. (MIRA 17:5)	
1. Akusticheskiy institut AN SSSR, Moskva.	
도 하실 생활이 있는 호텔을 받아 하고 있는 것을 하는데, 그는 전 보고 있는 것으로 되었다. 음료 등을 하는 것으로 보고를 보고 있는데, 그는 것으로 보고 있는데, 그런 것으로 보고 고 있을 것으로 보고 있는데, 그런 것으로 하는데, 그런 것으로 보고 있는데, 그런 그런 것으로 보고 있는데, 그런	

	Moscow circumferential highway. Cor. khoz. Mosk. 35 no.1:17-19 Ja '61. (MIRA 14:2)	
	1. Glavnyy inzh.proyekta i stroitel'stva Moskovskoy kol'tsevoy avtomobil'noy dorogi.	
	(Moscow-Coads)	
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마음을 하고 있다. 그런 사람들이 되었다. 그는 사람들은 사람들이 되었다. 그런 사람들이 되었다. 그런 사람들이 되었다. 1985년 - 1985년 - 1985년 1985년 - 1985년	





18	ectical plan for the organisation of -20 N'60. (Moscow region Road construct	(MTD1 13.33)	